

DERWENT-ACC-NO: 1980-44682C

DERWENT-WEEK: 198025

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TITLE: Glass for producing graded glass to tungsten  
and  
molybdenum seals - contg. oxide(s) of silicon,  
aluminium,  
boron, sodium, calcium and potassium

INVENTOR: AMBARTSUMY, A G; GEOKCHYAN, O K ; KOSTANYAN, K A

PATENT-ASSIGNEE: AMBARTSUMYAN A G[AMBAI]

PRIORITY-DATA: 1978SU-2565092 (January 6, 1978)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
SU 695979 A	November 5, 1979	N/A
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INT-CL (IPC): C03C003/08

ABSTRACTED-PUB-NO: SU 695979A

BASIC-ABSTRACT:

Addn. of K2O to the glass used for producing graded, quartz glass to  
W and Mo  
metal seals, ensures that the glass has linear thermal expansion  
coefft of  
(18-24).10<sup>-7</sup>/degrees C.

The glass contains(in wt.%): SiO<sub>2</sub> 85-88, Al<sub>2</sub>O<sub>3</sub> 4-5, B<sub>2</sub>O<sub>3</sub> 7-8, Na<sub>2</sub>O  
0.05-0.5,  
CaO 0.01-1.0 and K<sub>2</sub>O 0.05-0.5.

A typical glass contg. (in wt.%): SiO<sub>2</sub> 87, Al<sub>2</sub>O<sub>3</sub> 4.0, B<sub>2</sub>O<sub>3</sub> 7.5, Na<sub>2</sub>O  
0.5, K<sub>2</sub>O  
0.5 and CaO 0.5 has heat expansion coefft of 19.10<sup>-7</sup>/degrees C, glass  
point 719  
degrees C and softening temp 837 degrees C.

TITLE-TERMS: GLASS PRODUCE GRADE GLASS TUNGSTEN MOLYBDENUM SEAL  
CONTAIN OXIDE

SILICON ALUMINIUM BORON SODIUM CALCIUM POTASSIUM

DERWENT-CLASS: L01

CPI-CODES: L01-A01C; L01-A03A; L01-A05; L01-A06C; L01-H04;